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[U.S.] Patent Office and invention since 1845. By William L. Wyman.—Sci. Amer. 5 June, 1915, pp. 533-4, illus.

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Physics of the photographic process. By C. E. Kenneth Mees. ["Summarises, in semi-popular form, our knowledge of the outposts of investigation of the photographic plate, and is of value in indicating the directions in which future work may still further improve the photographic emulsion."]—Jl. Franklin Inst. Feb. 1915, pp. 141-60, 14 figs. *Reprinted* Brit. Jl. Phot. 12-19 Mar, 2 Apr. 1915.

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Kapteyn's mechanical [weight-driven pendulum] rocker for dishes, &c. By Alb. Kapteyn.—Brit. Jl. Phot. 19 Mar. 1915, pp. 180-3, 5 figs.

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Study of half-watt lamps in photography. By M. Luckiesh. [Deals with photometric measurements. Practical side was dealt with by W. H. Smith and E. A. Salt in Brit. Jl. Phot. 22 May, 1914, pp. 404-6.]—Brit. Jl. Phot. 7 May, 1915, pp. 303-5; 14 May, pp. 317-9; 21 May, pp. 333-5, 14 figs.

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Photographing projectiles by means of illumination from electric sparks. By C. Cranz, P. A. Günther, and F. Külp. [Ex. Zeitschrift f. d. ges. Schiess- und Sprengstoffwesen.]—Jl. U.S. Artillery, Jan.-Feb. 1915, pp. 109-26, 31 figs., and Sci. Amer. Suppt. 27 Mar.-3 Apr. 1915.

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Scientific aspects of piano-players. ["Application of dynamical and physical principles to the control of the striking action in piano-players."] By G. H. Bryan.—Nature, 1 Apr. 1915, pp. 131-4.

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Electro-culture. A résumé of the literature. By Helen R. Hosmer.—Gen. Electric Rev. Jan. 1915, pp. 14-21.

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Problems of plant life. II. The origin and evolution of the higher plants. By S. Reginald Price. [First article, entitled 'Evolution among lowly forms (the Algæ),' Knowledge, June, 1913, pp. 201-4.]—Knowledge, June, 1915, pp. 175-7, 9 figs.

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Native American species of prunus. By W. F. Wight.—Bull. U.S. Dept. Agric. No. 179, Apr. 1915, 76 pp. 13 pl.
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Poisonous gases in warfare and their antidotes. By W. A. Tilden.—Nature, 10 June, 1915, pp. 395-7, 1 fig.
Use of poisonous gases in warfare. [Generation of gases and means of protection from them.] By John B. C. Kershaw.—Sci. Amer. 12 June, 1915, pp. 595 and 598, illus.

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Design, details of construction, and use of trench periscopes. Discussion introduced by W. A. Dixey before the Optical Society.—Optician, 26 Feb. 1915, pp. 299-307.
Periscope-fitted rifle.—Arms and Explosives, July, 1915, pp. 89-90, 1 fig
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Combined automatic train control and audible signal system in use on the Great Western Railway of England [with discussion]. By W. A. Stanier; *and* Signalling on railway trains in motion. By W. Willox.—Jl. Inst. Mech. Eng. Jan. 1915, pp. 317-64, 9 figs.

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Harmful effects of aldehydes in soils. By Oswald Schreiner and J. J. Skinner.—Bull. U.S. Dept. Agric. No. 108, Aug. 1914, 26 pp. 8 pl. 15 tab.

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Sun power—its commercial utilization [by the Shuman system]. By George Hally.—Trans. Inst. Eng. and Shipbuilders in Scotland, vol. 57, 1914, pp. 346-71, 16 figs.
Utilization of solar energy. By A. S. E. Ackermann.—Jl. Roy. Soc. Arts, 30 Apr.-7 May, 1915, pp. 538-65, 9 figs. and pp. 584-5.

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(*To be continued.*)